

Report Outline and Reviewer Assignments
For the
Director's Independent Design and CD-2/3 Review
of the Muon g-2 Project
June 17-19, 2014

Executive Summary	<u>Steve Holmes</u>
<u>1.0 Introduction</u>	
2.0 Technical	
2.1 Accelerator	<u>Marion White*</u> Dave Capista Bob Webber
2.2 Ring	<u>Lou Snyderstrup*</u> Wuzheng Meng Mike Tartaglia
2.3 Detectors	<u>Alan Hahn *</u> Harry Cheung Brenna Flaughner
3.0 Cost and Schedule	<u>Elmie Peoples-Evans*</u>
3.1 Cost	Sherese Humphrey
3.2 Schedule	Pam Utley Richard Marcum
4.0 ESH&Q	<u>Amber Kenney*</u> Jemila Adetunji
5.0 Management	<u>Ken Stanfield*</u> Marc Kaducak Nancy Grossman Ruben Carcagno
6.0 Charge Questions	
TECHNICAL	
6.1 Is the Project's design appropriately developed and documented in the Muon g-2 Technical Design Report (TDR)? Does the design satisfy the performance requirements to carry out the scientific mission? Is the final design sufficiently mature such that the Project can initiate procurements and start construction? What outstanding design risks remain? For those elements of the design that are not yet finalized, has the Project shown that there are no major risks or issues that impede a clear path to a final design?	<u>Bob Webber</u> <u>Mike Tartaglia</u> <u>Harry Cheung</u> All
COST/SCHEDULE/FUNDING	
6.2 Has the Project developed a resource-loaded schedule that includes the Project's full scope of work? Is the schedule realistic and achievable?	<u>Pam Utley</u> All

6.3 Are the cost and schedule estimates complete and credible? Do they include adequate scope, cost and schedule contingency?	<u>Sherese Humphrey</u> All
6.4 Has the Project documented the Basis of Estimate (BOE) that supports the baseline cost and schedule presented?	<u>Elmie Peoples-Evans</u> All
6.5 Is the scope of work clearly defined between what is funded by DOE or NSF, and is this reflected in the cost, schedule and risk assessment presented to the committee?	<u>Richard Marcum</u> All
MANAGEMENT	
6.6 Has the Project implemented Risk Management by identifying risks, performing a risk assessment (qualitative and quantitative) and developing mitigation plans?	<u>Nancy Grossman</u> All
6.7 Is CD-4 achievable with the Project's risks and within the DOE approved Total Project Cost?	<u>Nancy Grossman</u> All
6.8 Has the Project updated required project management documents per DOE Order 413.3B for CD-2/3 and per the Fermilab Project Management System?	<u>Marc Kaducak</u> All
6.9 Are the Project organization and staffing levels adequate to initiate construction and manage the work to achieve CD-4?	<u>Ken Stanfield</u> All
6.10 Are ESH&Q aspects being properly addressed at this stage?	<u>Amber Kenney</u> <u>Jemila Adetunji</u> All
6.11 Does the Project's process for monthly progress reporting satisfy DOE and Laboratory requirements?	<u>Marc Kaducak</u> <u>Elmie Peoples-Evans</u> All
6.12 Has the Project properly addressed the recommendations from the DOE CD-1 Review, the Director's CD-1 Review and the Independent Conceptual Design Review?	<u>Marc Kaducak</u> <u>Ruben Carcagno</u> All
6.13 Is the Muon g-2 Project ready for a DOE CD-2/3 review in July?	<u>Steve Holmes</u> All

Note: * Indicates Subcommittee Lead and integrator of write-ups
Underlined names are the primary writer.